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FACSIMILE NO.: 571-273-8300
OUR REF.: CBOARD.001A
YOUR REF.: US Patent Application No. 10/764,012
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Examiner: Alicia Ann Chevalier

Art Unit: 1794

Application No.: 10/764,012

1. A polymer composite material, comprising:

(1) only one polymer matrix, the matrix consisting essentially of a polyurethane and an optional polyisocyanurate, the polyurethane formed by reaction of a reaction mixture, comprising:

(a) one or more monomeric or oligomeric poly- or di-isocyanates;

(b) a first polyol selected from the group consisting of polyether polyols and polyester polyols, the first polyol having a first hydroxyl number; and

(c) a second polyol selected from the group consisting of polyether polyols and polyester polyols, the second polyol having a second hydroxyl number less than the first hydroxyl number, and forming the polyurethane, wherein the polyurethane is less rigid than a second polyurethane that would be formed by the reaction of the first polyol and the one or more monomeric or oligomeric poly- or di-isocyanates in the absence of the second polyol, and wherein the second polyol is between about 5 wt % and about 20 wt %, based on the total weight of the first and second polyols being 100 wt %; and

(2) an inorganic particulate material comprising one or more of fly ash, ~~bottom-ash, particulate glass~~ and granite tailings dispersed in the polymer matrix, the inorganic particulate material being about 74 wt% ~~60 to about 85 wt%~~, based on the total weight of the composite material.

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